

### **AMENDMENTS TO THE CLAIMS**

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended): An R-Fe-B alloy based thin film magnet comprising an R-Fe-B based alloy which contains 28 to 45 percent by mass of R element (where R represents at least one type of rare-earth lanthanide elements) and which is physically formed into an alloy film,

wherein the alloy film has a thickness is 0.2 to 400 $\mu$ m, and

wherein the R-Fe-B based alloy has a composite texture comprising  $R_2Fe_{14}B$  crystals grown by heat treatment of said alloy film and having a crystal grain diameter of  $[[0.5]] \underline{3}$  to 30  $\mu$ m and R-element-rich grain boundary phases formed by the heat treatment present at boundaries between the crystals, and having a nucleation type coercive force.

2. (Previously Presented): The R-Fe-B alloy based thin film magnet according to Claim 1, wherein c axes, which are easy-to-magnetize axes, of  $R_2Fe_{14}B$  crystals are oriented randomly or oriented nearly perpendicularly to a film surface.

3. (Cancelled):

4. (Withdrawn-Currently Amended): A method for preparation of the R-Fe-B alloy based thin film magnet according to ~~any one of Claims 1 to 3~~ one of Claim 1 or 2, the method comprising the step of heating the R-Fe-B based alloy in a vacuum or in a non-oxidizing

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atmosphere to ~~[[700°C]]~~ 800°C to 1,200°C during physical alloy film formation or/and the following heat treatment, so as to grow crystal grains and form R-element-rich grain boundary phases.